

## Arithmetic Practice Test: 6

For Grade-8, 9 and 10 students

Time: 45 minutes

1. The weight of a person "A" is  $\left(\frac{2}{3}\right)^{rd}$  times of the weight of a person "B". The weight of "B" is  $\left(1\frac{1}{5}\right)^{th}$  times of the weight of a person "C". If the weight of "C" is 30 kg, find the weight of "A" and "B".
2.  $\left(\frac{2}{3}\right)^{rd}$  of Sunil's money is equal to  $\left(\frac{3}{4}\right)^{th}$  of Peter's money. If Sunil gives \$8 to Peter, the ratio of their money will be 7:10. How much money Peter has?
3. The ratio of two numbers is 3:11. If we add 20 to each number, their inverse ratio will be 15:7. Find the numbers.
4. The ratio of length, breadth and height of a room is 4:3:2. To paint each square meter of the 4 walls, it costs \$2.50. Total costs to paint the walls are \$280. Find the length, breadth and height of the room.
5. Five numbers are in continued proportion. The first number is 3 and the second number is 9. Find the fifth number.
6. The sum of ages of three persons is 171 years. However, 8 years back, the ratio of their ages was 8:7:6. Find their current ages.
7. A box contains a few coins of 25 cents, 10 cents and 5 cents. The total amount of money in the box is \$35. The ratio of the number of these coins is 3:4:5. Find the number of each type of coins in the box.
8. The ratio of ages of Sam, Peter and Harris is  $3\frac{1}{3}:4:5.5$ . If Sam's age is 60 years, then find the sum of their ages.
9. In a 72 liter of cold drink, the ratio of syrup and water is 7:2. How much water needs to be mixed so that the ratio of syrup and water would be 4:3?

10. The sum of the ages of a father and his son is 100years. Five years back, the ratio of their ages was 2 : 1. Find their current ages.

#### ANSWERS

1.  $A = 24kg$  ,  $B = 36kg$
2. \$32
3. 15, 55
4.  $8m$  ,  $6m$  ,  $4m$
5. 243
6. 64years, 57years, 50years
7. 25cents  $\rightarrow$  75coins, 10cents  $\rightarrow$  100coins, 5cents  $\rightarrow$  125coins
8. 231years
9. 26liter
10. Father: 65years, Son: 35years